400 GARDEN CITY PLAZA

GARDEN CITY, NY 11530

FILING DATE

02/10/2003

SCULLY SCOTT MURPHY & PRESSER, PC

04/15/2003

APPLICATION NO.

90/006,542

23389

FIRST NAMED INVENTOR

AUG 3 0 2004

PAPER NUMBER

DATE MAILED: 04/15/2003

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Control No.		*() 11	Patent Under Ree	vomination.
Order Granting / Denying Request For	90/006,542	AU6 3 0 2004		6261834	Admination
Ex Parte Reexamination	Examiner	A00 J 0 2001		Art Unit	
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	Sean R McG	any RADEN ACT	· ·	1635	
-The MAILING DATE of this communication appe			ith the c	correspondence	address
The request for ex parte reexamination filed 10 has been made. An identification of the claims, determination are attached.	Calman				
Attachments: a) PTO-892, b) PTC	O-1449,	c) Othe	er:	·	
1. The request for ex parte reexamination is	GRANTED.				
RESPONSE TIMES ARE SET AS FO					
For Patent Owner's Statement (Optional): TWC (37 CFR 1.530 (b)). EXTENSIONS OF TIME A		1ED B1 3/ (SFK 1.5	550(c).	unication
For Requester's Reply (optional): TWO MONTI Patent Owner's Statement (37 CFR 1.535). NO If Patent Owner does not file a timely statemen is permitted.	HS from the EXTENSIO t under 37 C	date of serv N OF THIS 1 FR 1.530(b),	rice of a TIME P , then n	any timely filed ERIOD IS PER to reply by requ	MITTED. ester
2. $igtimes$ The request for <i>ex parte</i> reexamination is E	DENIED.				
This decision is not appealable (35 U.S.C. 303(Commissioner under 37 CFR 1.181 within ONE CFR 1.515(c)). EXTENSION OF TIME TO FILE AVAILABLE ONLY BY PETITION TO SUSPEN 37 CFR 1.183.		ir ure mailing	g date c	of this communi	he cation (37 RE
In due course, a refund under 37 CFR 1.26 (c)	will be mad	e to requeste	er:		:
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quester (if third party requester)					
1 (Rev 04-01)					

Art Unit: 1635

`Reexamination

No substantial new question of patentability is raised by the request for reexamination and prior art cited therein for the reasons set forth below.

The requester indicates that claims 1-15 may be unpatentable over Chaterjee et al [US 5,474,935] in view of Izban et al [J. Biol. Chem. 264:9171,1989] which was cited during prosecution of the patent for which reexamination is requested.

The claims of 6,261,834, for which reexamination is requested, require an AAV vector that comprises two inverted repeats of AAV-2 and at least one cassette comprising a promoter capable of cell specific expression operably linked to a heterologous gene where the cassette lies between the inverted repeats.

Requestor has asserted that the '935 patent discloses an AAV vector that appears to be free of all AAV protein coding sequences and endogenous AAV promoters and contain cis-active DNA sequences for AAV DNA replication, encapsidation and host cell-specific expression. That is, it discloses an AAV vector that comprises two AAV-2 inverted repeats between which is included an expression cassette operably linked to a heterologous gene. Requestor asserts that Izban et al., cited in the prosecution of the '834 patent, discloses a known cell specific promoter.

The Chaterjee patent does not raise new substantial issues of patentability as to the '834 claims since the Chaterjee invention is clearly drawn to AAV based vectors with strong constitutive promoters (see column 9 last paragraph – column 10 line 14, for example). The invention is clearly drawn to the use of strong constitutive promoters in

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Application/Control Number: 90/006,542

Art Unit: 1635

order to allow for highly efficient expression in target cells. All promoters disclosed in the patent are strong constitutive promoters. There is simply no motivation provided in the art newly cited or the art of record to use other than a strong constitutive promoter.

The difference between the newly cited Chaterjee et al patent and the Lebkowski et al reference [Mol. Cell Biol. 8: 3988, 1988], which was cited in combination with Izban et al in the prosecution of the '834 patent, lies in the disclosure of an AAV vector that appears to be free of all AAV protein coding sequences and endogenous AAV promoters and contain cis-active DNA sequences for AAV DNA replication, encapsidation and host cell-specific expression by Chaterjee et al., and where Lebkowski et al did not make an AAV vector that deleted all AAV protein coding sequences and promoters between the inverted repeats, but, made an assertion that such a vector could be made. However, the Board in their decision to reverse the Lebkowski et al. Izban et al. 103 rejection of record addressed this difference. The Board asserted that, even if the Board agreed that the assertion of Lebkowski et al. expressly suggested deleting the entire sequence between the ITRs, the prior art would not have suggested to those of ordinary skill in the art to insert a promoter other than p40. Further it was asserted by the Board "given that Izban does not suggest inserting. its promoter in an AAV expression vector, the only reason for doing so is provided by appellants disclosure" (see pages 11 and 12 of the Board Decision, paper No.32 of 6,261,834). Chaterjee et al., nor Izban et al. suggest using a cell specific promoter. The newly cited reference, in view of the above, is considered cumulative to the teachings of the art cited in the earlier concluded examination of the patent.

Page 4

Application/Control Number: 90/006,542

Art Unit: 1635

The references set forth in the request, as drawn to sections I, II, and III, of the request for reexamination, have been considered both alone and in combination. They fail to raise a substantial new question of patentability as to any of the claims of 6,261,834. Accordingly, the request for reexamination is DENIED.

It is noted that an issue not within the scope of reexamination proceedings has been raised. In section IV of the request for reexamination the pertinancy of Liu et al. [Virology 182:361-364, 1991] and other references sited within section IV are discussed. The discussion is drawn solely to the enablement of the '834 claims. In MPEP 2217 it is stated:

Substantial new questions of patentability must be based on patents or printed publications. Other matters, such as public use or sale, inventorship, 35 U.S.C. 101, 35 U.S.C. 112, fraud, etc., will not be considered when making the determination on the request and should not be presented in the request. Further, a prior art patent or printed publication cannot be properly applied as a ground for reexamination if it is merely used as evidence of alleged prior public use or sale, insufficiency of disclosure, etc. The prior art patent or printed publication must be applied directly to claims under 35 U.S.C. 103 and/or an appropriate portion of 35 U.S.C. 102 or relate to the application of other prior art patents or printed publications to claims on such grounds.

The issue will not be considered in a reexamination proceeding. 37 CFR 1.552(c). While this issue is not within the scope of reexamination, the patentee is advised that it may be desirable to consider filing a reissue application provided that the

patentee believes one or more claims to be partially or wholly inoperative or invalid based upon the issue.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean R McGarry whose telephone number is (703)305-7028. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached on (703) 308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

srm April 15, 2003

> SEAN MCGARRY PRIMARY EXAMINER

1635

				A'TTY. DOCK	CET NO.	PATENT N	O. 6,261,834B1	
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INFORMATION DISCLOSURE CITATION (PTO-1449)				ATTY. DOCKET NO. RADEWARD 44141-034 APPLICANT: Nicolson et		PATENT NO. 6,261,834B1 Reexamination Control No. 90/006, 54/2	
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EXAMINER'S INITIALS	PATENT NO.	DATE	1	IAME	CLASS	SUBCLASS	FILING DATE
M	Rinaudo et al., "Conditional Site-Specific Integration into Human Chromosome 19 by Using Ligand-Dependent Chimeric Adeno-Associated Virus/Rep Protein", <u>Journal of Virology</u> 74(281-294 (2000);						
m	Philpott et a., "Efficient Integration of Recombinant Adeno-Associated Virus Requires a p5-rep Sequence in cis", Journal of Virology 76(11): 5411-5421 (2						1021-
1	Yang et al., "Cellular Recombination Pathways and Viral Terminal Repeat Hairpin Structures Are Sufficient for Adeno-Associated Virus Integration In Vivo and In Vitro", Journal of Virology 71(12: 92310-9247 (1997); and						
0006	Summons of the civil action captioned "Avigen, Inc. v. Research Corporation Technology, Inc." ("Avigen v. RCT"), Case No. C02 0880, United STates District Court for the Northern District of California ("Avigen v. RCT")						
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